

Work Order ID 117759

Thursday, May 01, 2014 10:44:22 AM

117759

Page 1

Item ID: D412-694-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Spacedoor™ Installation Clear Windows
 Start Date: 5/1/2014 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 12/31/2014 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: CX Date: 17/11/21 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr								
N/A	Rev N/A								

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D412-694-011 . CHG005								

CHG 007 see attachment

140	Pick Kit	0.00							
140									
Packaging	Memo	0.00							
Packaging									

MAR 03 2015

150	QC4- 100% Inspect kits for completeness	0.00							
150									
QC	Memo	0.00							
Quality Control									

MAY 13 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 117759

Thursday, May 01, 2014 10:44:22 AM

117759

Page 2

Item ID: D412-694-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 12/31/2014 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

160

0.00

160

Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D412-694-011

Location: FG018

PPP Rev: _____

15-05-12

170

0.00

170

QC21- Final Inspection - Work Order Release

QC

Memo

0.00

Quality Control

MCS MAY 13 2015

MCS MAY 12 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge		
☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other		

Picklist Print

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Page 1

Work Order ID: 117759

117759

Parent Item: D412-694-011

D412-694-011

Parent Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014

Required Date: 12/31/2014

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A05.04.27New IssueKJ/RF
IPP Rev:B 07-01-26 Added DSI 9363-011 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

BSP45		Purchased	No			140	Each	477.0000	48	48			
-------	--	-----------	----	--	--	-----	------	----------	----	----	--	--	--

RSP45
Commercial Rivet

DAS
26
9-89

Location

Loc Qty

Loc Code

ST282

477

M13/26

120417

477

D2126		Manufactured	No			140	f	404.6800	12.1666	13			
-------	--	--------------	----	--	--	-----	---	----------	---------	----	--	--	--

D2126

Seal

Location

Loc Qty

Loc Code

ST405

0.68

102729

0.68

ST406

404

110653

404

(D2126-0730) cut qty (2) at 73.00" as per dwg ***per kit***

D3090-1		Manufactured	No			140	Each	23.0000	4	4			
---------	--	--------------	----	--	--	-----	------	---------	---	---	--	--	--

D3090-1

Shim 0.250

Location

Loc Qty

Loc Code

ST025

23

18037

23

DAS
26
9-89

DAS
27
9-89
MAR 03 2015

DAS
27
9-89
MAR 03 2015

DAS
27
9-89
MAR 03 2015

DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____ _____ _____ _____
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Picklist Print

Thursday, May 01, 2014 10:44:21 AM

Page 2

Work Order ID: 117759

117759

Parent Item: D412-694-011

D412-694-011

Parent Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014

Required Date: 12/31/2014

Start Qty: 1.00

Required Qty: 1.00

D3090-3

Manufactured No

140

Each

24.0000

4 4

D3090-3

Shim 0.125

DAS
06
9-89

Location

ST025

Loc Qty

24

Loc Code

**

DAS
27
MAR 03 2015
DAS
26
9-89

D3108-1

Manufactured No

140

Each

5.0000

2 2

D3108-1

Decal

DAS
06
9-89

Location

ST025

Loc Qty

5

Loc Code

**

DAS
27
MAR 03 2015
DAS
26
9-89

D3108-2

Manufactured No

140

Each

5.0000

2 2

D3108-2

Decal

DAS
06
9-89

Location

ST025

Loc Qty

5

Loc Code

**

DAS
27
MAR 03 2015
DAS
26
9-89

D3108-3

Manufactured No

140

Each

11.0000

4 4

D3108-3

Decal

DAS
06
9-89

Location

ST025

Loc Qty

11

Loc Code

**

DAS
27
MAR 03 2015
DAS
26
9-89

50374
96310

1
10

4

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____
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Picklist Print

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Work Order ID: 117759

117759

Parent Item: D412-694-011

D412-694-011

Parent Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014

Required Date: 12/31/2014

Start Qty: 1.00

Required Qty: 1.00

D3108-5 Manufactured No

140 Each

14.0000

4 4

D3108-5

Decal

**

DAS 27 9-89
DAS 26 9-89
DAS 26 1-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST025

14

110719

12

83569

2

B9(31)

4

MAR 03 2015

D3108-7 Manufactured No

140 Each

14.0000

2 2

D3108-7

Decal

**

DAS 27 9-89
DAS 06 9-89
DAS 26 9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST025

14

36723

14

2

MAR 03 2015

D3116-1 Manufactured No

140 f

70.0000

8.3333 9

D3116-1

Seal(\$Per Foot)

**

DAS 27 9-89
DAS 06 9-89
DAS 26 9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST414A

70

2469

70

9

MAR 03 2015

(D3116-1-0500) cut qty (2) at 50.00" as per dwg

per kit

D3116-3 Manufactured No

140 f

100.0000

8.3333 9

D3116-3

Seal(\$Per Foot)

**

DAS 27 9-89
DAS 06 9-89
DAS 26 9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

ST414A

100

106992

100

9

MAR 03 2015

(D3116-3-0500) cut qty (2) at 50.00" as per dwg

per kit

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
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		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____

Picklist Print

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Work Order ID: 117759

117759

Parent Item: D412-694-011

D412-694-011

Parent Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014

Required Date: 12/31/2014

Start Qty: 1.00

Required Qty: 1.00

D3118-3 Manufactured No

140 Each 12.0000

D3118-3
Sign Assembly

4 4
**

DAS 26 9-89
DAS 27 9-89

MAR 03 2015

DAS 26 9-89

DAS 26 9-89

Location

Loc Qty

Loc Code

ST026

12

B123312 4

100588

12

140 Each

5.0000

4 4
**

DAS 26 9-89
DAS 27 9-89

MAR 03 2015

DAS 26 9-89

D3118-5 Manufactured No

D3118-5
Decal

DAS 26 9-89

Location

Loc Qty

Loc Code

ST026

5

B123038 4

64831

1

78760

4

140 Each

4.0000

4 4
**

DAS 26 9-89
DAS 27 9-89

MAR 03 2015

DAS 26 9-89

D3128-1 Manufactured No

D3128-1
Shim

DAS 26 9-89

Location

Loc Qty

Loc Code

ST027

4

B122946 4

18643

1

79008

3

140 Each

4.0000

2 2
**

DAS 26 9-89
DAS 27 9-89

MAR 03 2015

DAS 26 9-89

D3144-15 Manufactured No

D3144-15
Doubler

DAS 26 9-89

Location

Loc Qty

Loc Code

CA

4

B125069 2

67696

4

DAS 26 9-89
DAS 27 9-89

DAS 26 9-89

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other _____ _____ _____ _____
--	--	---	---

Picklist Print

Thursday, May 01, 2014 10:44:21 AM

Page 5

Work Order ID: 117759

117759

Parent Item: D412-694-011

D412-694-011

Parent Item Name: Spacedoor™ Installation Clear Windows

Start Date: 5/1/2014

Required Date: 12/31/2014

Start Qty: 1.00

Required Qty: 1.00

D3300-1 Manufactured No

140 Each 6.0000 2 2

D3300-1

Window

DAS
06
9-89

Location

Loc Qty

Loc Code

ST209

6

56108

6

D412-694-01 Manufactured No

140 Each 0.0000 1 1

D412-694-01

Door Assembly, LH

D412-694-015

Manufactured No

140 Each 0.0000 4 4

D412-694-015

Replacement Clear Window

DAS
6
9-89

D412-694-02 Manufactured No

140 Each 0.0000 1 1

D412-694-02

Door Assembly, RH

D412-694-03

Manufactured No

Each 0.0000 1

D412-694-03

Hinge Door Assembly, LH

D412-694-04

Manufactured No

140 Each 0.0000 1 1

D412-694-04

Hinge Door Assembly, RH

DSI 9363-011

Manufactured No

140 Each 1.0000 1 1

DSI 9363-011

Shim

Location

Loc Qty

Loc Code

FG123

1

87462

1

DAS
06
9-89

Batch: B39182

DAS
27
9-89

Thursday, May 01, 2014 10:44:21 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

REF

SP 15-04-27

6. PARTS LIST

Qty -011-	Qty -013	Qty -015	Qty -017	Qty -01	Qty -02	Qty -03	Qty -04	Part Number	Description
X								D412-694-011	SPACEDOOR™ INSTALLATION
	X							D412-694-013	PANEL INSTALLATION (OPTIONAL)
4		X						D412-694-015	REPLACEMENT WINDOW KIT
			X					D412-694-017	BEARING OVERHAUL KIT
				X				D412-694-01	DOOR ASSEMBLY
1					X			D412-694-02	DOOR ASSEMBLY
1						X		D412-694-03	DOOR ASSEMBLY
							X	D412-694-04	DOOR ASSEMBLY
(2)								D2126-0730	SEAL
(4)								D3090-1	SHIM
(4)								D3090-3	SHIM
(2)								D3108-1	DECAL
(2)								D3108-2	DECAL
(4)								D3108-3	DECAL
(4)								D3108-5	DECAL
(2)								D3108-7	DECAL
						1	1	D3110-1	ESCUTCHEON
						1	1	D3110-3	HANDLE
				1	1			D3110-5	HANDLE ASSEMBLY
						1	1	D3111-041	PLATE ASSEMBLY
						2	2	D3112-1	GUIDE
						1	1	D3113-1	SPRING
						1	1	D3114-1	PIVOT
				1	1			D3115-1	BRACKET
(2)								D3116-1-0500	SEAL
						1	1	D3116-11-0180	SEAL
(2)								D3116-3-0500	SEAL
						1	1	D3116-5-0680	SEAL
				1	1			D3116-7-0680	SEAL
				1	1			D3116-9-0770	SEAL
		1						D3117-1-0980	SEAL RETAINER
		1						D3117-3-0980	SEAL FILLER
(4)								D3118-3	SIGN ASSEMBLY
(4)								D3118-5	SIGN ASSEMBLY
						1		D3119-041	COVER ASSEMBLY
							1	D3119-042	COVER ASSEMBLY
						1		D3120-1	COVER
							1	D3120-2	COVER
						1		D3120-3	COVER
							1	D3120-4	COVER
				3	3			D3121-041	BRACKET ASSEMBLY ("ROLLER")
				1				D3121-043	BRACKET ASSEMBLY ("ROLLER")
					1			D3121-044	BRACKET ASSEMBLY ("ROLLER")
			7					D3121-21	SCREW

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Revision: B

Date: 04.10.07

Qty -011	Qty -013	Qty -015	Qty -017	Qty -01	Qty -02	Qty -03	Qty -04	Part Number	Description
			5					D3121-241	BEARING ASSEMBLY
				1	1			D3122-1	LEVER
				2	2			D3123-1	CAM
				1	1			D3124-1	HOOK
				1	1			D3124-2	HOOK
						1	1	D3125-1	LEVER
						1	1	D3125-3	LEVER
						1	1	D3125-5	LEVER
						1	1	D3125-7	LEVER
				1	1			D3126-1	BRACKET ("SLIDER")
				1	1			D3126-3	BRACKET ("SLIDER")
				5	5			D3126-5	BRACKET ("SLIDER")
				1	1			D3127-1	SPACER
						1	1	D3128-1	SHIM
						2	2	D3129-1	LEVER
						2	2	D3130-1	CLEVIS BASE
						1	1	D3131-1	STOP
				1				D3132-041	ROD WELDMENT
					1			D3132-042	ROD WELDMENT
					1			D3133-041	ROD WELDMENT
				1				D3133-042	ROD WELDMENT
						1	1	D3134-1	ROD
						1	1	D3134-3	ROD
				1	1			D3135-041	HANDLE WELDMENT
		1						D3136-041	WINDOW ASSEMBLY
				2				D3137-041	BRACKET ASSEMBLY ("ROLLER")
			1					D3137-3	GUIDE
			1					D3137-5	WASHER
				1				D3138-1	COVER
					1			D3138-2	COVER
				1	1			D3139-1	GUARD
				1				D3139-3	GUARD
					1			D3139-4	GUARD
				1				D3140-05	DOOR
					1			D3140-06	DOOR
						1		D3140-07	DOOR
							1	D3140-08	DOOR
				2	2			D3141-1	SPRING
						1	1	D3143-1	CLEVIS
						3	3	D3143-3	CLEVIS
						1		D3144-1	DOUBLER
						1		D3144-105	DOUBLER
						1		D3144-107	DOUBLER
				1				D3144-109	DOUBLER
				1	1			D3144-111	DOUBLER
					1			D3144-115	DOUBLER
							1	D3144-117	DOUBLER
							1	D3144-119	DOUBLER

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Revision: **B**

Date: 04.10.07

Qty -011	Qty -013	Qty -015	Qty -017	Qty -01	Qty -02	Qty -03	Qty -04	Part Number	Description
					1		1	D3144-121	DOUBLER
					1			D3144-123	DOUBLER
				1	1			D3144-13	DOUBLER
				1				D3144-3	DOUBLER
						1		D3145-1	HINGE BRACKET
							1	D3145-2	HINGE BRACKET
						1		D3146-1	HINGE BRACKET
							1	D3146-2	HINGE BRACKET
						2	2	D3147-1	PIN
				2	2			D3148-1	CLEVIS
						2	2	D3149-1	STRIKER PLATE
						2	2	D3150-1	GUIDE
				1	1			D3151-041	DOUBLER ASSEMBLY
				1				D3152-041	BRACKET ASSEMBLY
					1			D3152-042	BRACKET ASSEMBLY
	1							D3153-11	PANEL
	1							D3153-12	PANEL
	1							D3153-13	PANEL
	1							D3153-14	PANEL
	1							D3153-15	PANEL
	1							D3153-16	PANEL
						1	1	D3154-1	KEY
				1	1			D3155-041	BRACKET ASSEMBLY
				1	1			D3155-042	BRACKET ASSEMBLY
				2	2			D3156-1	BRACKET
						2	2	D3157-1	SPACER
						3	3	D3159-041	BRACKET ASSEMBLY
						1		D3159-043	BRACKET ASSEMBLY
							1	D3159-044	BRACKET ASSEMBLY
				12	12			D3162-041	BRACKET ASSEMBLY
				1				D3163-041	COVER ASSEMBLY
					1			D3163-042	COVER ASSEMBLY
				1				D3183-041	BRACKET ASSEMBLY ("ROLLER")
					1			D3183-042	BRACKET ASSEMBLY ("ROLLER")
			2					D3183-045	BEARING ASSEMBLY
				1	1			D3203-1	HANDLE ASSEMBLY
2								D3300-1	WINDOW
				2	2			D3308-1	DOUBLER
				55	55	21	21	80-005-2-8	INSERT (OR SL2052-3-4)
	60							A6K75	RIVNUT
				10	10			AN525-10R6	SCREW
				8	8	4	4	AN525-10R7	SCREW
						8	8	AN960JD10	WASHER
				18	18	4	4	AN960JD10L	WASHER
				13	13	32	32	AN960JD10LL	WASHER
				6	6			AN960JD416L	WASHER
						4	4	AN960JD6L	WASHER
				6	6			AN960JD8	WASHER
						2	2	AN960JD8L	WASHER

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Revision: B

Date: 04.10.07

DART

DESIGN RF	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. DSI 9309	REV. A SHEET 1 OF 2
DATE 05.09.26		TITLE SEAL KIT	SCALE NTS
A	05.09.26	NEW ISSUE	

DART SERVICE INSTRUCTION

TO AMEND IIN-D412-694 REV. B
REF. CANADIAN STC: SH05-10
REF. FAA STC: SR02086NY

TO CLOSE THE GAP BETWEEN AIRCRAFT AND D412-694-01/-02 DOOR ASSEMBLY IT IS ACCEPTABLE TO INSTALL D3116-9-0520 SEAL AS SHOWN BELOW IN LIEU OF INSTALLING THE D3116-3-0520 SEAL PER IIN-D412-694.

ADD THE FOLLOWING PARTS TO THE LIST OF IIN-D412-694. CUSTOMERS WITH EARLY MODEL D412-694-011 KITS CAN PROCURE THE DSI 9309-011 KIT FROM DART TO DO THIS MODIFICATION.

-011	Part Number	Description
X	D412-694-011	SPACEDOOR MODIFICATION
X	DSI 9309-011	SEAL KIT
2	D3116-9-0520	SEAL
2	D3144-15	DOUBLER
48	BSP45	RIVET

PROCEDURE:

- 1) LOCATE D3116-9-0520 SEAL ON D412-694-01/-02 DOOR ASSEMBLY SO THAT IT WILL REST AGAINST EXISTING AIRCRAFT SEAL WHEN DOOR IS CLOSED. ENSURE PROPER ORIENTATION OF SEAL.
- 2) TRIM D3144-15 DOUBLER AND D3116-9-0520 SEAL AS NECCESARY TO CLEAR BRACKETS ON AFT EDGE OF DOOR. ENSURE MINIMUM EDGE DISTANCE OF 0.40" (10 mm) FROM THE RIVET HOLES.
- 3) TRANSFER DRILL $\varnothing 0.129"$ (#30) FROM DOUBLER, THROUGH SEAL AND INTO THE DOOR. DEBURR AND INSTALL DOUBLER & SEAL USING BSP45 RIVETS. SEAL RIVETS WITH RTV-732 SEALANT.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 05.09.26
CERT. NO.: SH05-10
ISSUE NO.: 1

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Work Order ID 117759

Thursday, May 01, 2014 10:44:22 AM

117759

Page 1

Item ID: D412-694-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Spacedoor™ Installation Clear Windows
 Start Date: 5/1/2014 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 12/31/2014 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: CZ Date: 17/11/21 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
N/A	Rev N/A								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D412-694-011	CHG005							
		007							
140	Pick Kit	0.00							
140									
Packaging	Memo	0.00							
Packaging									
150	QC4- 100% Inspect kits for completeness	0.00							
150									
QC	Memo	0.00							
Quality Control									

MAR 03 2015

MLJ 1503-03

see attachment

Change Record

PAGE 1 OF 1

Part Number: D412-694-011 (& D412-694-01/-02/-03/-04)

Description: SPACEDOOR INSTALLATION

[illegible]